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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/685,265 10/14/2003		Haruhisa Masuda	1376-03	4015	
35811	7590 11/03/2005		EXAMINER		
IP GROUP OF DLA PIPER RUDNICK GRAY CARY US LLP			DUNWOODY, AARON M		
SUITE 4900		ART UNIT	PAPER NUMBER		
PHILADELI	PHIA, PA 19103	3679			

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	· · · · · · · · · · · · · · · · · · ·		Application No.	Applicant(s)				
Office Action Summary								
			10/685,265	MASUDA ET AL.				
		E	xaminer	Art Unit				
			Aaron M. Dunwoody	3679				
Period fo	The MAILING DATE of this commun or Reply	nication appea	rs on the cover sheet with th	e correspondence ad	ldress			
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MASSIAN STATE OF THE PROVISION OF T	MAILING DAT s of 37 CFR 1.136(a munication. tatutory period will a y will, by statute, ca	E OF THIS COMMUNICAT a). In no event, however, may a reply be apply and will expire SIX (6) MONTHS (use the application to become ABANDO	ON. e timely filed rom the mailing date of this c DNED (35 U.S.C. § 133).	,			
Status								
1)⊠	Responsive to communication(s) file	ed on 23 Sep	tember 2005.					
	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition			prosecution as to the	e merits is			
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-27</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>23-25</u> is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
·	Claim(s) 1-22,26 and 27 is/are rejected.							
7)								
8) 🗌	Claim(s) are subject to restrict	ction and/or e	lection requirement.					
,	on Papers		•					
· · · · · · · · · · · · · · · · · · ·	The specification is objected to by the		· · · · · · · · · · · · · · · · · · ·	_				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
11)	The oath or declaration is objected t	o by the Exan	niner. Note the attached Off	ice Action or form P	10-152.			
Priority u	ınder 35 U.S.C. § 119			•				
_	 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 							
	3. Copies of the certified copies	of the priority	documents have been rece	eived in this National	Stage			
	application from the Internation	onal Bureau (I	PCT Rule 17.2(a)).	•				
* 5	see the attached detailed Office action	on for a list of	the certified copies not rece	ived.				
	·		•					
Attachmen	t(s) .							
_	e of References Cited (PTO-892)		4) 🔲 Interview Summ	ary (PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (F		Paper No(s)/Mai	l Date				
	nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date	PTO/SB/08)	5) Notice of Inform 6) Other:	al Patent Application (PT	D-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/22/2005 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11, 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over US patent 6540264, Yokoyama et al in view of US patent 6258927, Oka et al.

In regards to claim 1, Yokoyama et al disclose a fuel pipe joint having excellent fuel permeation resistance, using a joint material. Yokoyama et al does not disclose the joint material comprising a polyamide (nylon 9T) consisting of a dicarboxylic acid component and a diamine component, with 60 to 100 mol% of the dicarboxylic acid component being terephthalic acid and 60 to 100 mol% of the diamine component being a diamine component selected from 1,9-nonanediamine and 2-methy1-1,8-

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octanediamine. Oka et al teach a joint material comprising a polyamide (nylon 9T). consisting of a dicarboxylic acid component and a diamine component, with 60 to 100 mol% of the dicarboxylic acid component being terephthalic acid and 60 to 100 mol% of the diamine component being a diamine component selected from 1,9-nonanediamine and 2-methy1-1.8-octanediamine, to have good flame retardancy and heat resistance, and exhibit good thermal stability and continuous moldability when molded in melt, and it can be molded into good moldings having excellent appearances, especially fine color tone, without giving much gas (col. 1, lines 7-11). As Oka et al relates to polyamide compositions used in connectors, it would have been obvious to on having ordinary skill in the art at the time the invention was made to fabricate the joint with a joint material comprising a polyamide (nylon 9T) consisting of a dicarboxylic acid component and a diamine component, with 60 to 100 mol% of the dicarboxylic acid component being terephthalic acid and 60 to 100 mol% of the diamine component being a diamine component selected from 1,9-nonanediamine and 2-methy1-1,8-octanediamine, to have good flame retardancy and heat resistance, and exhibit good thermal stability and continuous moldability when molded in melt, and it can be molded into good moldings having excellent appearances, especially fine color tone, without giving much gas, as taught by Oka et al.

In regards to claim 2, Yokoyama et al in view of Oka et al disclose a fuel pipe joint having excellent fuel permeation resistance, using a joint material comprising a polyamide resin composition comprising from 50 to 99 parts by weight of a polyamide (nylon 9T) and from 1 to 50 parts by weight of another polyamide resin or another

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thermoplastic resin, the polyamide (nylon 9T) consisting of a dicarboxylic acid component and a diamine component, with 60 to 100 mol% of the dicarboxylic acid component being terephthalic acid and 60 to 100 mol% of the diamine component being a diamine component selected from 1,9-nonanediamine and 2-methy1-1,8-octanediamine.

In regards to claim 3, Oka et al discloses the joint material further comprising areinforcement.

In regards to claim 4, Oka et al discloses the joint material further comprising an electrically conducting filler.

In regards to claim 5, Oka et al discloses the electrically conducting filler having an aspect ratio of 50 or more and a short diameter of 0.5 nm to 10 gm.

In regards to claim 6, Oka et al discloses the joint material further comprising a reinforcement and an electrically conducting filler at a ratio of 1:3 to 3:1 by weight.

In regards to claim 7-11, Yokoyama et al discloses a fuel pipe quick connector comprising a cylindrical body.

In regards to claims 26 and 27, Yokoyama et al in view of Oka et al inherently disclose the joint material having a fuel permeation resist measured in fuel permeability of 1.8 – 2.4 mg/day

Claims 12-13 and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokoyama et al in view of Oka et al as applied to claims 1-11 above, and further in view of WO 93/925835, Noone et al.

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In regards to claim 12, Yokoyama et al in view of Oka et al disclose the claimed invention including a joint body having first and second end portions, from the first to second end portions of the joint body a continuous hollow portion being formed, the first end portion of the joint body being able to sealingly engage with a first tube, the second end portion of the joint body being able to liquid-tightly engage with a male-type second tube, wherein the joint body is made of the joint material. Yokoyama et al in view of Oka et al do not disclose a resin first tube. Noone et al teach a resin first tube which has been employed in the past (pg. 1, lines 10-12). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a resin first tube which has been employed in the past, as taught by Noone et al.

In regards to claim 13, Yokoyama et al disclose the first end portion of the joint body being formed as a nipple (14).

In regards to claim 16, Yokoyama et al disclose an O-ring around the hollow portion at the second end portion of the joint body in order to liquid-tightly engage with the male-type second tube.

In regards to claim 17, Noone et al disclose the second tube being a resin tube.

In regards to claim 18, Yokoyama et al in view of Oka et al disclose the second tube having a flange portion and the fuel pipe quick connector further comprising a retainer (19) inside the fuel joint body at the second end portion thereof for engaging with and retaining the flange portion of the second tube.

In regards to claim 19, Yokoyama et al in view of Oka et al disclose the retainer being made of the joint material.

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In regards to claim 20, Yokoyama et al disclose a fuel pipe component obtained by joining the quick connector with a polyamide resin tube by a welding method selected from spin welding, vibration welding, laser welding and ultrasonic welding.

Note, the method of forming the device is not germane to the issue of patentability of the device itself. Therefore, the limitation, joining the quick connector with a polyamide resin tube by a welding method selected from spin welding, vibration welding, laser welding and ultrasonic welding, has been given little patentable weight.

In regards to claim 21, Noone et al disclose the polyamide resin tube being a multilayer tube comprising a barrier layer.

Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokoyama et al in view of Oka et al and further in view of Noone et al, and further in view of Patent Application Publication US2003/0137148 A1, Andre et al.

In regards to claim 14, Yokoyama et al in view of Oka et al and further in view of Noone et al disclose the claimed invention except an O-ring around the nipple of the first end portion of the joint body. Andre et al teach an O-ring (52) around the nipple (36) of the first end portion of the joint body (26) to seal the nipple with a flexible tube. As Andre et al relates to fluid connector, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an O-ring around the nipple of the first end portion of the joint body to seal the nipple with a flexible tube.

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In regards to claim 15, Andre et al disclose the nipple of the first end portion of the joint body having a plurality of protruded barbs on an outer peripheral surface thereof.

Claims 1-11, 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over US patent 6540264, Yokoyama et al in view of Patent Application Publication US2003/023008 A1, Uchida et al.

In regards to claim 1, Yokoyama et al disclose a fuel pipe joint having excellent fuel permeation resistance, using a joint material. Yokoyama et al does not disclose the joint material comprising a polyamide (nylon 9T) consisting of a dicarboxylic acid component and a diamine component, with 60 to 100 mol% of the dicarboxylic acid component being terephthalic acid and 60 to 100 mol% of the diamine component being a diamine component selected from 1,9-nonanediamine and 2-methy1-1,8octanediamine. Uchida et al teach a joint material comprising a polyamide (nylon 9T) consisting of a dicarboxylic acid component and a diamine component, with 60 to 100 mol% of the dicarboxylic acid component being terephthalic acid and 60 to 100 mol% of the diamine component being a diamine component selected from 1,9-nonanediamine and 2-methy1-1,8-octanediamine, to have good flame retardancy and heat resistance, and exhibit good thermal stability and continuous moldability when molded in melt, and it can be molded into good moldings having excellent appearances, especially fine color tone, without giving much gas (col. 1, lines 7-11). As Uchida et al relates to polyamide compositions used in connectors, it would have been obvious to on having ordinary skill

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in the art at the time the invention was made to fabricate the joint with a joint material comprising a polyamide (nylon 9T) consisting of a dicarboxylic acid component and a diamine component, with 60 to 100 mol% of the dicarboxylic acid component being terephthalic acid and 60 to 100 mol% of the diamine component being a diamine component selected from 1,9-nonanediamine and 2-methy1-1,8-octanediamine, to have good flame retardancy and heat resistance, and exhibit good thermal stability and continuous moldability when molded in melt, and it can be molded into good moldings having excellent appearances, especially fine color tone, without giving much gas, as taught by Uchida et al.

In regards to claim 2, Yokoyama et al in view of Uchida et al disclose a fuel pipe joint having excellent fuel permeation resistance, using a joint material comprising a polyamide resin composition comprising from 50 to 99 parts by weight of a polyamide (nylon 9T) and from 1 to 50 parts by weight of another polyamide resin or another thermoplastic resin, the polyamide (nylon 9T) consisting of a dicarboxylic acid component and a diamine component, with 60 to 100 mol% of the dicarboxylic acid component being terephthalic acid and 60 to 100 mol% of the diamine component being a diamine component selected from 1,9-nonanediamine and 2-methy1-1,8-octanediamine.

In regards to claim 3, Uchida et al discloses the joint material further comprising areinforcement.

In regards to claim 4, Uchida et al discloses the joint material further comprising an electrically conducting filler.

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In regards to claim 5, Uchida et al discloses the electrically conducting filler having an aspect ratio of 50 or more and a short diameter of 0.5 nm to 10 gm.

In regards to claim 6, Uchida et al discloses the joint material further comprising a reinforcement and an electrically conducting filler at a ratio of 1:3 to 3:1 by weight.

In regards to claim 7-11, Yokoyama et al discloses a fuel pipe quick connector comprising a cylindrical body.

In regards to claims 26 and 27, Yokoyama et al in view of Uchida et al inherently disclose the joint material having a fuel permeation resist measured in fuel permeability of 1.8 – 2.4 mg/day

Claims 12-13 and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokoyama et al in view of Uchida et al as applied to claims 1-11 above, and further in view of WO 93/925835, Noone et al.

In regards to claim 12, Yokoyama et al in view of Uchida et al disclose the claimed invention including a joint body having first and second end portions, from the first to second end portions of the joint body a continuous hollow portion being formed, the first end portion of the joint body being able to sealingly engage with a first tube, the second end portion of the joint body being able to liquid-tightly engage with a male-type second tube, wherein the joint body is made of the joint material. Yokoyama et al in view of Uchida et al do not disclose a resin first tube. Noone et al teach a resin first tube which has been employed in the past (pg. 1, lines 10-12). It would have been obvious to

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one having ordinary skill in the art at the time the invention was made to provide a resin first tube which has been employed in the past, as taught by Noone et al.

In regards to claim 13, Yokoyama et al disclose the first end portion of the joint body being formed as a nipple (14).

In regards to claim 16, Yokoyama et al disclose an O-ring around the hollow portion at the second end portion of the joint body in order to liquid-tightly engage with the male-type second tube.

In regards to claim 17, Noone et al disclose the second tube being a resin tube.

In regards to claim 18, Yokoyama et al in view of Uchida et al disclose the second tube having a flange portion and the fuel pipe quick connector further comprising a retainer (19) inside the fuel joint body at the second end portion thereof for engaging with and retaining the flange portion of the second tube.

In regards to claim 19, Yokoyama et al in view of Uchida et al disclose the retainer being made of the joint material.

In regards to claim 20, Yokoyama et al disclose a fuel pipe component obtained by joining the quick connector with a polyamide resin tube by a welding method selected from spin welding, vibration welding, laser welding and ultrasonic welding.

Note, the method of forming the device is not germane to the issue of patentability of the device itself. Therefore, the limitation, joining the quick connector with a polyamide resin tube by a welding method selected from spin welding, vibration welding, laser welding and ultrasonic welding, has been given little patentable weight.

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In regards to claim 21, Noone et al disclose the polyamide resin tube being a multilayer tube comprising a barrier layer.

Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokoyama et al in view of Uchida et al and further in view of Noone et al, and further in view of Patent Application Publication US2003/0137148 A1, Andre et al.

In regards to claim 14, Yokoyama et al in view of Uchida et al and further in view of Noone et al disclose the claimed invention except an O-ring around the nipple of the first end portion of the joint body. Andre et al teach an O-ring (52) around the nipple (36) of the first end portion of the joint body (26) to seal the nipple with a flexible tube. As Andre et al relates to fluid connector, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an O-ring around the nipple of the first end portion of the joint body to seal the nipple with a flexible tube.

In regards to claim 15, Andre et al disclose the nipple of the first end portion of the joint body having a plurality of protruded barbs on an outer peripheral surface thereof.

Response to Arguments

Applicant's arguments filed 1/28/2005 have been fully considered but they are not persuasive.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention

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where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, as Oka et al. relates to polyamide compositions used in connectors, it would have been obvious to one having ordinary skill in the art at the time the invention was made to fabricate the joint (Yokoyama et al) with a joint material comprising a polyamide (nylon 9T) consisting of a dicarboxylic acid component and a diamine component, with 60 to 100 mol% of the dicarboxylic acid component being terephthalic acid and 60 to 100 mol% of the diamine component being a diamine component selected from 1,9-nonanediamine and 2methy1-1,8-octanediamine, to have good flame retardancy and heat resistance, and exhibit good thermal stability and continuous moldability when molded in melt, and it can be molded into good moldings having excellent appearances, especially fine color tone, without giving much gas, as taught by Oka et al; it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a resin first tube which has been employed in the past, by combining Yokoyama et al in view of Oka et al with Noone et al; it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an O-ring around the nipple of the first end portion of the joint body to seal the nipple with a flexible tube by combining Yokoyama et al in view of Oka et al, in view of Noone et al, in further view of Andre et al, as Andre et al relates to fluid connector; and as Uchida et al relates to polyamide compositions used in connectors, it would have been obvious to on having ordinary skill

in the art at the time the invention was made to fabricate the joint (Yokoyama et al) with a joint material comprising a polyamide (nylon 9T) consisting of a dicarboxylic acid component and a diamine component, with 60 to 100 mol% of the dicarboxylic acid component being terephthalic acid and 60 to 100 mol% of the diamine component being a diamine component selected from 1,9-nonanediamine and 2-methy1-1,8-octanediamine, to have good flame retardancy and heat resistance, and exhibit good thermal stability and continuous moldability when molded in melt, and it can be molded into good moldings having excellent appearances, especially fine color tone, without giving much gas, as taught by Uchida et al.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the joint material having excellent fuel permeation resistance) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron M. Dunwoody whose telephone number is 571-272-7080. The examiner can normally be reached on 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on 571-272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aaron M Dunwoody Primary Examiner Art Unit 3679 Page 14

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